

Title (en)

Process water recycling plant and process

Title (de)

Prozesswasser-Recycling-Anlage und Verfahren

Title (fr)

Installation et procédé de recyclage d'eau de traitement

Publication

EP 0636401 B1 19970806 (DE)

Application

EP 94106637 A 19940428

Priority

DE 4325037 A 19930726

Abstract (en)

[origin: EP0636401A1] Process water recycling plant, in particular for a damping solution and other process waters from printing machines. Process water is taken from a process water unit (B1), independently of its connection to the printing machine, and separated into filtrate and concentrate in an ultrafiltration filter (F2). The filtrate is recirculated via a process water recirculation line (22) into the process water unit B1. The concentrate is recirculated via a fluid line (18) a plurality of times into a working vessel (B3), through which the process water is also passed on its way from the process water unit (B1) to the ultrafiltration filter (F2). After reaching a certain concentration, the concentrate is taken from this filter circuit, chemically worked up, and separated into a solid phase to be removed and a liquid phase recirculated into the filter circuit. Since the recycling process operates separately from the process water feed to the printing machine, interference with one another is ruled out. <IMAGE>

IPC 1-7

B01D 61/14; **B41F 35/00**; **B41F 31/02**; **C02F 1/44**; **B01D 65/02**

IPC 8 full level

B01D 61/14 (2006.01); **B01D 65/02** (2006.01); **B41F 31/02** (2006.01); **B41F 35/00** (2006.01); **C02F 1/44** (2006.01)

CPC (source: EP)

B01D 61/145 (2013.01); **B41F 31/02** (2013.01); **B41F 35/00** (2013.01); **C02F 1/444** (2013.01); **B41P 2235/31** (2013.01)

Cited by

DE10227675A1; AT518434B1; AT518434A4; AT523844A4; AT523844B1; AT525240A4; AT525240B1; AT518388B1; AT518388A4; EP1908508A1; AT502037B1; EP0789000A1; DE10120608B4; AT518390B1; AT518390A4; EP0927632A1; AU754542B2; US6607664B2; KR100539025B1; US6485653B1

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EP 0636401 A1 19950201; **EP 0636401 B1 19970806**; AT E156384 T1 19970815; DE 4325037 A1 19950202; DE 59403619 D1 19970911; ES 2105407 T3 19971016

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